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Jud W. Virden Jr., Ph.D., has served since 2011 as the Associate Laboratory Director for the Energy and Environment Directorate at Pacific Northwest National Laboratory (PNNL) in Richland, Wash. PNNL has been operated since 1965 by Battelle for the U.S. Department of Energy.

Dr. Virden leads about 1,000 scientists, engineers, and professional staff in delivering science and technology solutions for the nation's energy and environmental challenges. He is responsible for a \$234 million research portfolio spanning Clean Fossil Energy, Electricity Infrastructure (including grid-scale energy storage), Energy Efficiency and Renewable Energy, Environmental Health and Remediation, and Nuclear Energy and Science.

He has contributed to several national and international public/private technology partnerships. In 2009, he was assigned to DOE Headquarters to assist in the development of U.S.-China clean energy research centers. In 2000, Dr. Virden served as co-chair for the DOE 21st Century Truck Partnership National Laboratory Council, working with 18 industry partners and national research institutions to create a national technology roadmap and research partnerships with National Laboratories to reduce heavy duty truck emissions and increase vehicle efficiency. In 1994, he served on a two-year assignment in Flint, Mich., working with the United States Council for Automotive Research, GM, Ford, and Chrysler, where he was part of a team that initiated and developed multiple government/industry projects to address next-generation vehicle technologies.

Since joining PNNL in 1991 as a researcher, Dr. Virden has served in a variety of technical and managerial positions. His honors include R&D 100 and Federal Laboratory Consortium awards, an MIT Discover Award, and a Financial Times Global Automotive Award with Delphi Automotive. He was inducted in 2014 into the Washington State Academy of Sciences. He currently serves on the following boards and advisory committees: the American Council for an Energy Efficient Economy, Council for Chemical Research, Georgia Tech Strategic Energy Institute, University of Michigan Energy Institute, University of Washington College of Engineering, CleanTech Alliance Washington, and Oregon BEST.

Dr. Virden holds a bachelor's degree and a doctorate degree in Chemical Engineering, each from the University of Washington.